

SERVICE MANUAL



Model No. LTV-27w2
LTV-32w1
Type No. : SLT27A
SLT32A

27" & 32" Color LCD TV Display



Westinghouse

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1. Precautions and Safety Notices

Prior to using this manual, please ensure that you have carefully followed all the procedures outlined in the user manual for this product.

- Read all of these instructions.
- Save these instructions for later use.
- Follow all warnings and instructions marked on the product.
- Do not use this product near water.
- This display should be installed on a solid horizontal base.
- When cleaning, use only a neutral detergent cleaner with a soft damp cloth. Do not spray with liquid or aerosol cleaners.
- Do not expose this display to direct sunlight or heat. Hot air may cause damage to the cabinet and other parts.
- Adequate ventilation must be maintained to ensure reliable and continued operation and to protect the display from overheating. Do not block ventilation slots and openings with objects or install the display in a place where ventilation may be hindered.
- Do not install this display near a motor or transformer where strong magnetism is generated. Images on the display will become distorted and the color irregular.
- Do not allow metal pieces or objects of any kind to fall into the display from ventilation holes.

Slots and openings in the cabinet and the back or bottom are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, those openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.

2. Specifications

2.1 General

	Item	Specifications for LTV-27w2	
Display Panel	Display Area	27" diagonal (26.97" viewable) 23.5" (H) x 13.2" (V)	
	Resolution	640x480, 800x600, 1024x768, 1280x720 (Native), 1280x768	
	Aspect Ratio	16:9	
	Pixel Pitch	0.1555mm(H) x 0.4665mm(V)	
	Lamp Life	60,000 hrs	
	Display Color	16.7 M	
	Transmissive Mode	Normally black	
	Viewing Angle	170° (H) / 170° (V)	
	Brightness (Luminance)	550cd/m ²	
	Contrast Ratio	600:1	
Graphic	Response Time	16 ms	
	Separate Sync	TTL Level	
	Horizontal Sync	Positive/Negative	
	Vertical Sync	Positive/Negative	
	Connectors	Composite (Video In)	2xRCA (Yellow, Red, White)
		S-Video In	S-Video
		Component In	YPbPr RCA,
		Tuner In	TV System Antenna/NTSC
		Audio In (2)	RCA (Red/White) (Audio L/R In)
		Audio Out	3.5mm Stereo (Headphone)
Compatibility	Color System	NTSC	
Audio Output	Built-in Speaker	2 x 9 watt speakers	
Other	Physical Dimensions	26.8"W x 22"H x 7.3"D (w/ Base) 26.8"W x 20.5"H x 4.0"D (w/o Base)	
	Weight	30 lbs w/Base 26 lbs w/o Base	
	Power Adapter	Input – AC 90-240VAC 50/60 Hz (auto switch), 1.6A, universal	
	Power Consumption	Normal Mode: Under 150W Power off Mode : Under 3W	
	Operating Temperature	32°F to 95°F (0°C to 35°C)	
Regulation	Safety/EMC	UL/C-UL, FCC-B	
DDC	Plug & Play	VESA DDC1 and DDC2B	
Function	Function Key	7 keys	

Preset Timing Mode (Pre-adjusted to reduce blinking: 1280 x 720 at 75Hz)

Warning: Do not set the graphics card in your computer to exceed these refresh rates; doing so may result in permanent damage to the LCD TV.

Note: Product Specifications are subject to change without notice.

	Item	Specifications for LTV-32w1	
Display Panel	Display Area	32" diagonal (32.02" viewable) 27.9" (H) x 15.7" (V)	
	Resolution	640x480, 800x600, 1280x768, 1280x1024, 1360x768 (Native)	
	Aspect Ratio	16:9	
	Pixel Pitch	0.1730mm(H) x 0.5190mm(V)	
	Lamp Life	60,000 hrs	
	Display Color	16.7 M	
	Transmissive Mode	Normally black	
	Viewing Angle	170° (H) / 170° (V)	
	Brightness (Luminance)	550cd/m ²	
	Contrast Ratio	1000:1	
Graphic	Response Time	8 ms	
	Separate Sync	TTL Level	
	Horizontal Sync	Positive/Negative	
	Vertical Sync	Positive/Negative	
	Connectors	Composite (Video In)	2xRCA (Yellow, Red, White)
		S-Video In	S-Video
		Component In	YPbPr RCA,
		Tuner In	TV System Antenna/NTSC
		Audio In (2)	RCA (Red/White) (Audio L/R In)
		Audio Out	3.5mm Stereo (Headphone)
Compatibility	Color System	NTSC	
Audio Output	Built-in Speaker	2 x 9 watt speakers	
Other	Physical Dimensions	31.3"W x 25.5"H x 8"D (w/ Base) 31.3"W x 23.5"H x 3.8"D (w/o Base)	
	Weight	34 lbs w/Base 30 lbs w/o Base	
	Power Adapter	Input – AC 90-240VAC 50/60 Hz (auto switch), 1.6A, universal	
	Power Consumption	Normal Mode: Under 150W Power off Mode : Under 3W	
	Operating Temperature	32°F to 95°F (0°C to 35°C)	
Regulation	Safety/EMC	UL/C-UL, FCC-B	
DDC	Plug & Play	VESA DDC1 and DDC2B	
Function	Function Key	7 keys	

Preset Timing Mode (Pre-adjusted to reduce blinking: 1360 x 768 at 60Hz)

Warning: Do not set the graphics card in your computer to exceed these refresh rates; doing so may result in permanent damage to the LCD TV.

Note: Product Specifications are subject to change without notice.

3. Testing

3.1. Environment

Test Condition	
30 Minutes	Warm-Up
Viewing Distance	1m
Input Characteristics	
Input voltage range.	90Vac to 264Vac.
Input frequency range	50 or 60Hz ± 3Hz.
Power board output voltage	24V, 12V, 5VC, 5VSB +/-5%
Input current	50/60 Hz (auto switch), 0.8A/1.8A
Inrush current	< 50A @ 115VAC, < 100A (MAX) @230VAC.
Operating Temperature	
Operating Relative Humidity	0° C to + 35° C (32° F to + 95° F)
Storage Temperature	10% to 90% (no condensation)
Storage Relative Humidity	-20° C to + 60° C (-4° F to + 140° F)
Operating Altitude	10% to 95% (no condensation)
Storage Altitude	0 meters to +3,000 meters
Operating Altitude	
Storage Altitude	0 meters to +12,000 meters

Test Fixture & Equipment

Video Generator	CHROMA & VCD/DVD/VCR/GAME/DVHS PLAYER
Pattern Generator	CHROMA2225/VG828/VG848/VG858

3.2 Tests

Component 1&2, AV 1&2, S-Video, TV Function & Function Key test

YPbPr & Composite AV port & S-Video Port Toggle Test

Connect a YPbPr video signal to the Component port, and a composite video signal to the AV port, and a S-Video Signal Source to the S-Video port. Using the OSD, toggle through all the sources, and confirm that an image is displayed.

RF Signal Test

NTSC Cable Test. (Standard cable 125 Channel)

NTSC Air Test. (Antenna 69 Channel)

With a RF cable connected, a picture should be displayed.

Audio Test

Test Condition

Base input audio waveform Sine wave 0.5Vr.m.s. (1.414Vp-p) @ 1KHz

Video setting Purity white at 1280 x 768 @ 60Hz

Contrast and Brightness Default

Balance = 0, Bass = 10, Treble = 10.

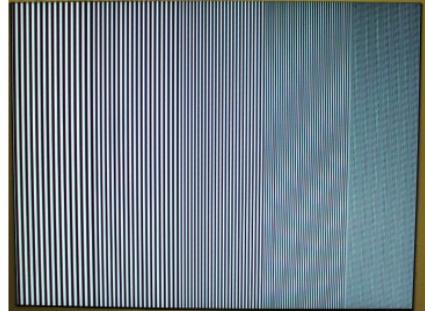
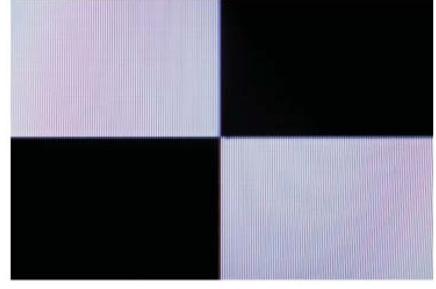
Connect an audio source to each audio input (VGA, DVI, AV x 2, and component x 2) and the speakers should output sound.

Speaker Specifications

Line Input Connection	3.5 mm stereo Jack x 1, RCA Jack (L/R) x 5
Line Input Signal	0.5Vrms (1.414Vp-p)
Line Input Impedance	10KΩ
Maximum Power Output (electric)	9W x 2 @ 10 % THD at Freq.= 200Hz ~ 15KHz
Frequency response	200Hz – 15KHz into 8Ω Load
Distortion	< 10 % THD
Audio DPMS	Speakers must be mute when the display is in power saving mode

Video Performance Test

The following tests should be conducted by connecting the video signal to one port at a time.

VIDEO PORTS TO TEST				
	AV port	S-Video port	YCbCr/YPbPr	TV Composite Video*
Color Bar Pattern (COL_SMPTE)	<ul style="list-style-type: none"> The color from left to right should be White, Yellow, Sky Blue, Green, Magenta, Red, and Blue. Some smearing or dot crawl between color bars is acceptable. Use the Blue color filter to check Hue and Saturation are in the optimized point. (Saturation - Blue and White color should be the same when seen through a blue color filter.) (Hue - Magenta and Sky Blue color should be the same when seen through a Blue color filter.) 			
Crosshatch	<ul style="list-style-type: none"> Crosshatch pattern should have no visible noise. 			
Multi Burst Pattern	<ul style="list-style-type: none"> In low bandwidth pattern, there shouldn't be any dots on the transition edges. In high bandwidth pattern, there shouldn't be any loss of resolution and the scaling should be correct. This is a sample with no visible noise. 			
Black & White Pattern	<ul style="list-style-type: none"> There shouldn't be any visible noise at transition edges. 			
Gray Scale Pattern	<ul style="list-style-type: none"> The gray scale should not be saturated at default value. 			

Connect a cable TV or RF pattern generator signal and set the RF sensitivity to 45 ~85dB μ V. An image should be displayed. If under 60dB μ V, some snow noise is acceptable but there should not be any color loss.

TV Channel Auto Scan

- The auto scan process should take less than 3 minutes.
- Pressing the "Menu" key should exit the TV channel scanning.

V-Chip & Close Caption Function Test

- Close Caption:
 - Select "Close Caption" (In main picture OSD) to CC1, CC2, CC3, CC4, TT1, TT2, TT3, TT4.
 - Using a FLUKE 54200 or VG848/858, test CC number 1, CC number 2, CC number 3, CC number 4, CC number 5, CC number 6, CC number 7, CC number 8.
- Parental Control:
 - Select the "Parental Control" in OSD and enter the password "0000". Enter the TV rating and setting all the rating to "LOCKED".
 - Using a FLUKE 54200 or VG848/858, test the CC Sequence, the image should be locked and should show the "enter password" and rating message. After entering the password and the image should display again.

Power Supply Tests

Power Consumption Test Table:

TV Status	LED Color	Video Signal	Power Consumption	Recover Time
Power On	Green ¹	Active	<180W	
Aging	Note ²	NA	<180W	
Power Saving	Amber ³	NA	<3W	
DC Power Off	Off	NA	<3W	
AC Power Off	Off	NA	-	

Note:

1. "Green" color for 00AAB, "Blue" color for 43AAB.
2. Amber (1sec) → Green (1sec) → Amber (1sec) → Green (1sec)... continuously.
3. The power saving status is only for VGA / DVI PC mode (DMPS is on).
Power saving time is 30 seconds; in factory mode it is 3 seconds.

Audio Test

Connect a VGA audio input source to VGA audio input. The audio function of Balance, Bass, and Treble should be working normally.

Connect AV1 & AV2 (AV & S-Video) audio input source to AV L/R audio input. The audio function of Balance, Bass, and Treble should be working normally.

Connect Component 1 & 2 audio input source to Component 1 & 2 L/R audio input. The audio function of Balance, Bass, and Treble should be working normally.

Audio Output Test: When each audio input has a source, then the audio output RCA jack (L/R) should output 0.5Vrms (1.414Vp-p).

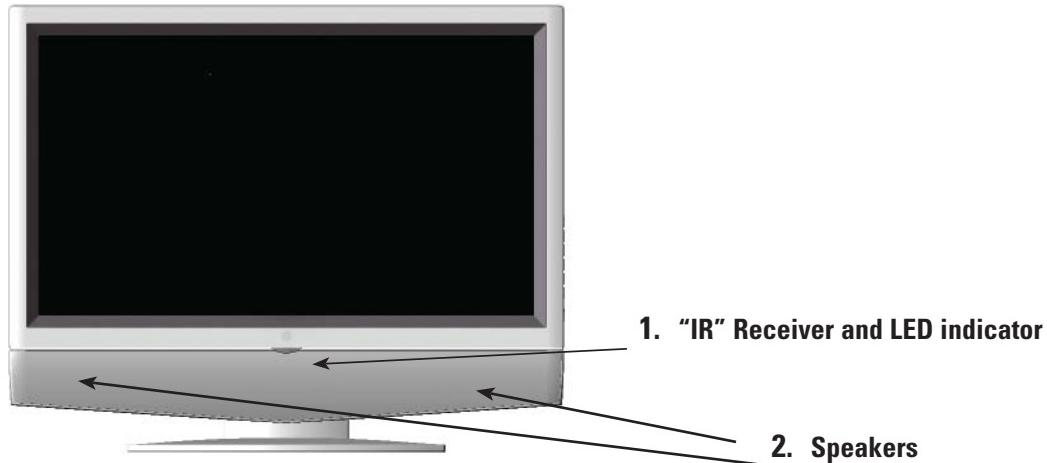
3.3 Factory Settings

	TV	AV	S-Video	Component1	Component2	DVI Video Mode	DVI PC Mode	VGA
Brightness	50	50	50	48	50	44	50	50
Contrast	45	45	45	50	50	50	50	50
Saturation	50	50	50	40	55	55	50	50
Hue					0			
Color Temp.					Color 3			
Sharpness	0	0	0	0	0	0	None	None
Aspect Ratio					FILL			
Backlight					100			
Volume					30			
Bass					10			
Treble					10			
Balance					0			
MTS	Stereo	None	None	None	None	None	None	None
Mute					OFF			
Speaker					Internal			
Display Mode					OFF			
Main Source					TV			
PIP Source					VGA			
PIP Position					H-position: 100, V-position: 100.			
PIP Size					SMALL			
Audio From					TV			
TV/CATV					CABLE STD			
Closed Caption					OFF			
Sleep					OFF			
MPAA Rating					None			
TV PG Rating					None			
MENU Position					H-position: 0, V-position: 0.			
MENU Timeout					10 second			
Language					English			
Transparency					3			
DPMS					ON			
DC Power					OFF			

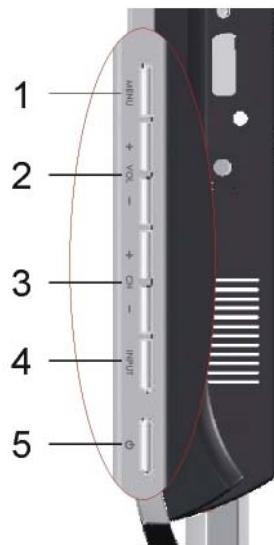
4. Front Panel Controls

4.1 User Control

Use the MENU on the right side of the LCD TV or on the remote control to display the On Screen Display (OSD). The OSD controls are defined in "OSD Functions" on page 12.



Side View of the LCD TV



1. Menu

Turn OSD Menu ON/OFF

2. Volume + / -

Increase/Decrease sound volume or adjust a highlighted control while in the OSD Menu.

3. Channel + / -

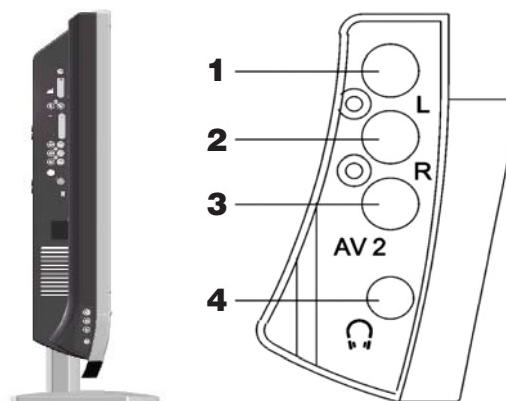
Channel up/down when Input is TV or highlight a control while in the OSD Menu.

4. Input

Select Active Video Input or choose a selection while in the OSD MENU.

5. Power Button

Power ON/OFF



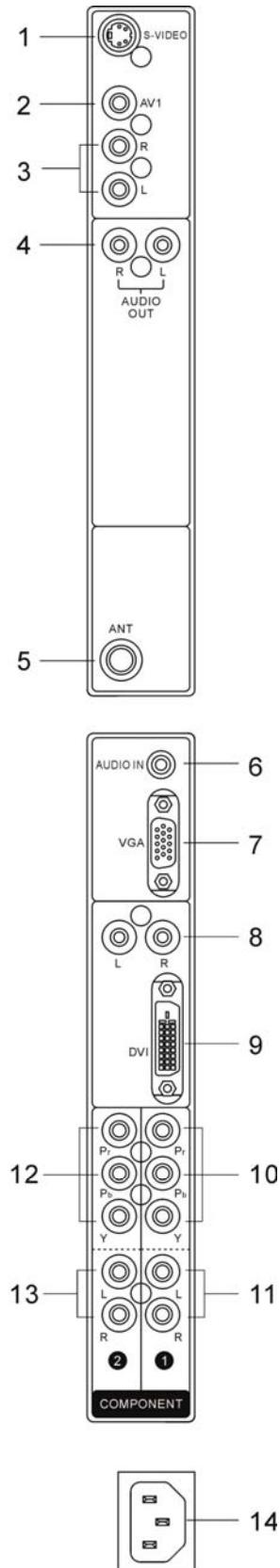
1/2. AV2 Audio Input (Left / Right)

Connect an external audio source to these jacks (Audio (R/L)).

3. AV2 Video Input

Connect an external video device such as a VCR, DVD or video game system.

4. Headphone Jack

**1. S-Video Input**

Connect to an external video device such as a digital cable/satellite receiver, VCR, DVD or video game system.

2. AV1 Video Input

Connect an external video device such as a VCR, DVD or video game system.

3. AV1 & S-Video Audio Input (Right/Left)

Connect an external audio source to this jack (Audio (R/L)). This connection supports either S-Video or AV1 input.

4. Audio Output (Right/Left)

Connect this output to an external audio receiver.

5. ANT (RF-input)

Connect the LCD TV to an antenna or cable service.

6. VGA Audio IN

Using the cable provided, connect to the Audio out (Green) from a computer.

7. VGA

Using a 15-pin VGA cable, connect to a computer or other device with a VGA output.

8. DVI Audio Input (Left/Right)

Connect an audio source.

9. DVI

Using the 20-pin DVI connect to a computer or other device with a DVI output.

10. YPbPr1 Input

Connect an external video device with component output to these jacks.

11. YPbPr1 Audio 1 Input (Left/Right)

Connect an external audio source to this jack.

12. YPbPr2 Input

Connect an external video device with component output to these jacks.

13. YPbPr2 Audio 2 Input (Left/Right)

Connect an external audio source to this jack.

14. AC IN (Power)

Connect the power cord from AC IN to a power source.

4.2 Internal Function Key

Special Keys (Hot key)

Function	Hot Key	Remark
Turn on Burn-in Mode	"VOL -" + "Input" + "Power Button"	
ISP Mode	"MENU" + "VOL +" + "Power Button"	
Factory Mode	While in the Burn-in mode, press the "RETURN" key on the remote control.	

4.3 OSD Functions

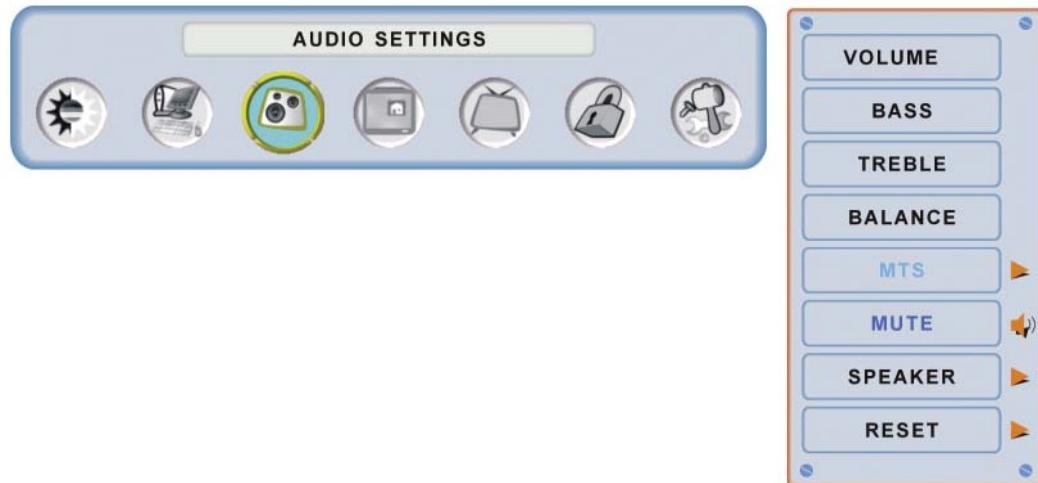
All the OSD function settings are controlled either by the remote control or using the control keys on the right side of the LCD TV. To display the OSD main menu, press the Menu button on the right side of the LCD TV or on the remote control. Use → arrow keys to highlight the desired OSD sub-menu.

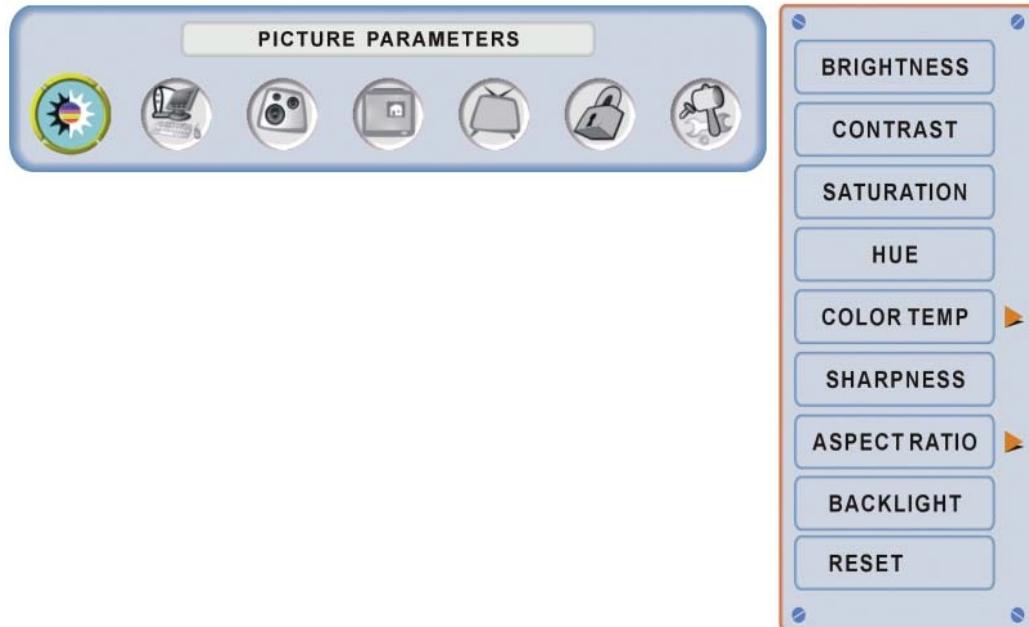


Main Menu

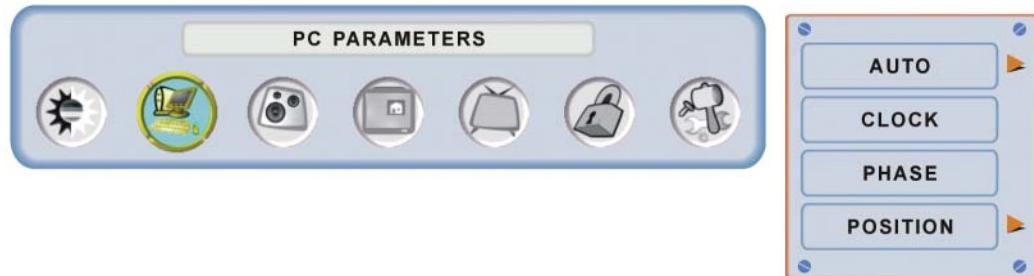
To select a sub-menu, press $\Theta\Theta$ on the right side of the LCD TV or the $\Theta\Theta$ key on the remote control.

Audio Settings:



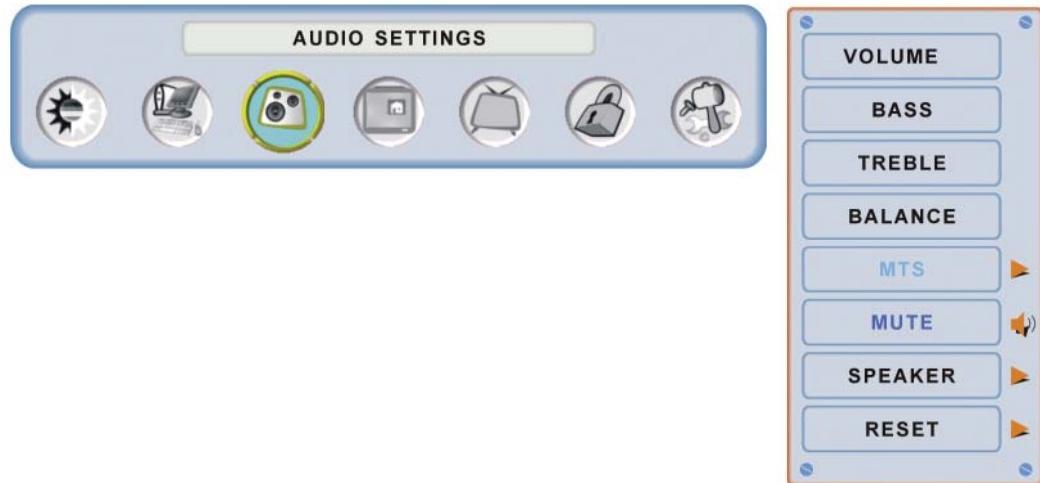
Picture Parameters:

Function Name	Function
Brightness	Brightness adjustment
Contrast	Contrast adjustment
Saturation	Saturation adjustment
Hue	Hue adjustment
Color Temp	Color temperature adjustment (Color 1, Color 2, Color 3)
Sharpness	Sharpness adjustment (Sharpness cannot be adjusted in PC mode)
Aspect Ratio	Set display to "STANDARD" / "FILL" / "ZOOM"
Backlight	Backlight adjustment
Reset	Reset video settings

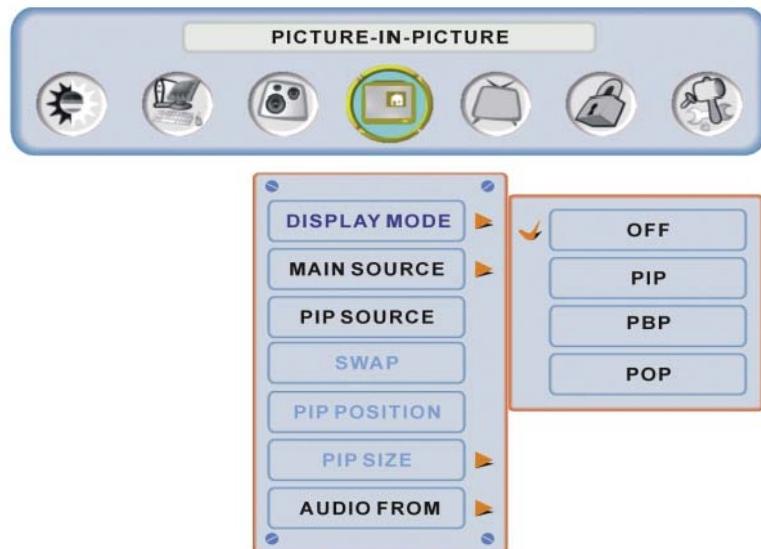
PC Parameters:

Function Name	Function
Auto Adjust	Automatically adjust the horizontal phase of the image
Clock	Clock adjustment
Phase	Phase adjustment
Position	Adjust the horizontal and vertical position of the image

NOTE: The GRAPHIC menu is only available when VGA source is selected.

Audio Settings:

Function Name	Function
Volume	Volume adjustment
Bass	Bass adjustment
Treble	Treble adjustment
Balance	Balance adjustment
MTS	MTS Selection NOTE: This function depends on the type of broadcast being received.
Mute	Select Audio OFF or ON
Speaker	Select internal or external speaker
Reset	Reset audio settings

Picture-in-Picture:

Function Name	Function
Display Mode	OFF→PIP→PBP→POP
Main Source	Select main screen sources TV→AV1→AV2→S Video→YPbPr1→YPbPr2→VGA→DVI
PIP Source	Select sub screen sources See PIP/PBP/POP specification in Table 1
Swap	Swap main screen and sub-screen source
PIP Position	Sub-screen display horizontal/vertical position adjustment
PIP Size	Sub-screen display size adjustment (Small→Medium→Large)
Audio From	Select main screen or sub-screen audio sources

Table 1:

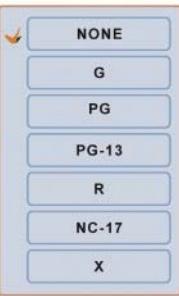
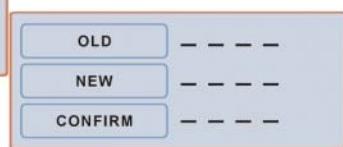
SUB \ Main	VGA	DVI	AV1	AV2	S Video	YPbPr1	YPbPr2	TV
VGA	X	0	0	0	0	X	X	0
DVI	0	X	0	0	0	0	0	0
AV1	0	0	X	X	X	0	0	X
AV2	0	0	X	X	X	0	0	X
S Video	0	0	X	X	X	0	0	X
YPbPr1	X	0	0	0	0	X	X	0
YPbPr2	X	0	0	0	0	X	X	0
TV	0	0	X	X	X	0	0	X

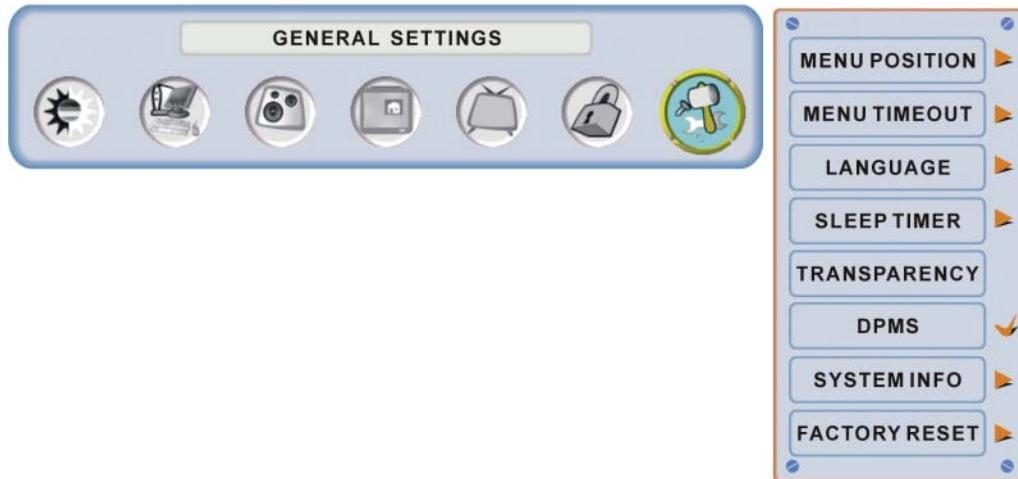
Channel Settings:

Function Name	Function
TV / CATV	Select TV source type (ANTENNA→Cable STD→Cable HRC→Cable IRC)
Auto Scan	Automatically detect available TV channels
Channel EDIT	Add/Delete the selected TV channel
Close Caption	Turn the Close Caption OFF or CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3, TEXT4

Parental Controls:

Function Name	Function
Lock Menu	Turn parental control OFF or ON
MPAA Rating	See next page
TV PG Rating	See next page
Password EDIT	Change Password (see next page)

Function Name	Function
MPAA Rating  	NONE: Not available G: General audience PG: Parental guidance suggested PG-13: Parents strongly cautioned R: Restricted NC 17: No one 17 and under admitted X: Adult audience only TV PG Rating
TV PG Rating    	TV Y: All children TV Y7: For older children TV G: General audience TV PG: Parental guidance suggested TV 14: Parents strongly cautioned TV MA: Mature audience only
Password Edit  	Change Password

General Settings:

Function Name	Function
Menu Position	OSD horizontal/vertical position adjustment
Menu Timeout	Set the time to turn off the OSD automatically
Language	OSD language selection.
Sleep Timer	Set sleep timer to turn off the power automatically
Transparency	Set OSD transparency level
DPMS	Select DPMS On/Off
LED	Turn LED on or off
System Info	Display Input source, type and signal
Factory Reset	Restore factory default settings

Appendix A. Part Numbers

PART NUMBER	DESCRIPTION	QUANTITY
<i>Power</i>		
3090107601	AC POWER CORD L=1800 BLK NA #18x3C	1
4900211680	POWER SUPPLY 90-264 VAC TV USE	1
<i>PCBA</i>		
5600110348	PWB ASSY FRONT BD LT32AAN 43AAB	1
5600110349	PWB ASSY FUN. KEY BD LT32AAN 43AAB	1
5600110351	PWB ASSY MAIN BD LT27BAN 43AAB	1
5600110356	PWB ASSY IR BD LT27BAN 43AAB	1
<i>Internal Cables</i>		
3080325500	CABLE RCA L1800 RED/WHITE 2P	1
3080325700	CABLE RCA L1800 G/B/R 3P	1
<i>Accessory</i>		
3532097100	MANUAL PACKING ASSY WDE LT27AAN43A	1
5012048200	CARD QUICK CONNECT GUIDE WDE LT27B	1
5041809000	REMOTE CONTROL FOR LT30BAN43AAB	1
<i>Screws</i>		
3100300600	SCREW M M3x0.5x6 PAN C S+P S20C ZN	21
3100431600	SCREW M M3x0.5x16 PAN C S20C ZN BL	4
3105051501	SCREW M #4-40x7 HEXH #4-40x3 S18C	6
3105124700	SCREW M M4x0.7x16 FF C S18C ZN BLK	6
3105126600	SCREW M M4x0.7x6.5 FF C S18C NI NL	4
3105221000	SCREW M M3x0.5x6 FF C S18C ZN	10
3105225300	SCREW M M3x0.5x4 FF C S18C ZN	23
3105281900	SCREW M M3x0.5x8 FF C S18C ZN BLK	6
3109011100	SCREW T 3x1.27x6 FPH C S18C ZN Y	26
3109029100	SCREW T 4x1.6x16 PAN C S18C ZN B	4
3109168700	SCREW T 3x2.7x6 FF C S18C ZN BLK	14
3110250000	WASHER SPRING SWRT	6
<i>Mechanical Parts</i>		
3200667500	NAME PLATE NI WDE LOGO OD16.5 T.1	1
3200667601	LABEL CONNECTOR-L 231.4x43.25 WDE	1
3200668001	LABEL CONNECTOR-R 231.4x43.25 WDE	1
3201994101	LABEL ID 119.5x59.5 WESTINGHOUSE L	1
3240046600	WASHER NYLON66 94V-2 10x4x5	6

PART NUMBER	DESCRIPTION	QUANTITY
<i>Mechanical Parts (continued)</i>		
3360258700	R/C ABS LT27BAN43AAB W7VRA1LS	1
3360738300	FUNCTION KEY ABS W7VFA1LS	1
3361099100	F/B ABS SILVER LT27BAN43AAB W7VFA1	1
3361216000	COVER EARPHONE ABS W7VRA1LS	1
3368225001	CABINET ASSY LT27AAN43AAB W7VFA1LS	1
3368232502	BASE ASSY LT27BAN43AAB W7VBA1LS	1
3369014700	SPK COVER ASSY LT27AAN43AAB W7VFA1	1
3460204400	BRACKET EXTEND SECC 224x86x9 T1	1
3460206301	BRACKET PANEL SECC 401x400x52 T1	1
3460206800	BRACKET SIDE MOUNT-LEFT SECC 385x4	1
3460206901	BRACKET SIDE MOUNT-RIGHT SECC 385	1
3460214800	BRACKET IO-LEFT SECC 382x49x30 T1	1
3460214901	BRACKET VESA-I SECC 225x130x9.1 T2	1
3460215101	BRACKET IO-RIGHT SECC 382x49x30 T1	1
3461261800	SHIELD CAN -UP SECC 225x172x44 T.3	1
3461261900	SHIELD CAN -DOWN SECC 225x172x44 T	1
3461265800	SHIELD CAN -INV. SECC 327x133x0.9	1
3790187700	SPEAKER-R ASSY LT32AAN43AAB	1
3790187800	SPEAKER-L ASSY LT32AAN43AAB	1
<i>Packing Material</i>		
3500146000	END BLOCK-TOP LT27AAN43AAB	1
3500146100	END BLOCK-BOTTOM LT27AAN43AAB	1
3500148600	END BLOCK TOP-R LT27BAN43AAB	1
3512282100	CARTON 780x237x701 WDE LT27AAN43AA	1

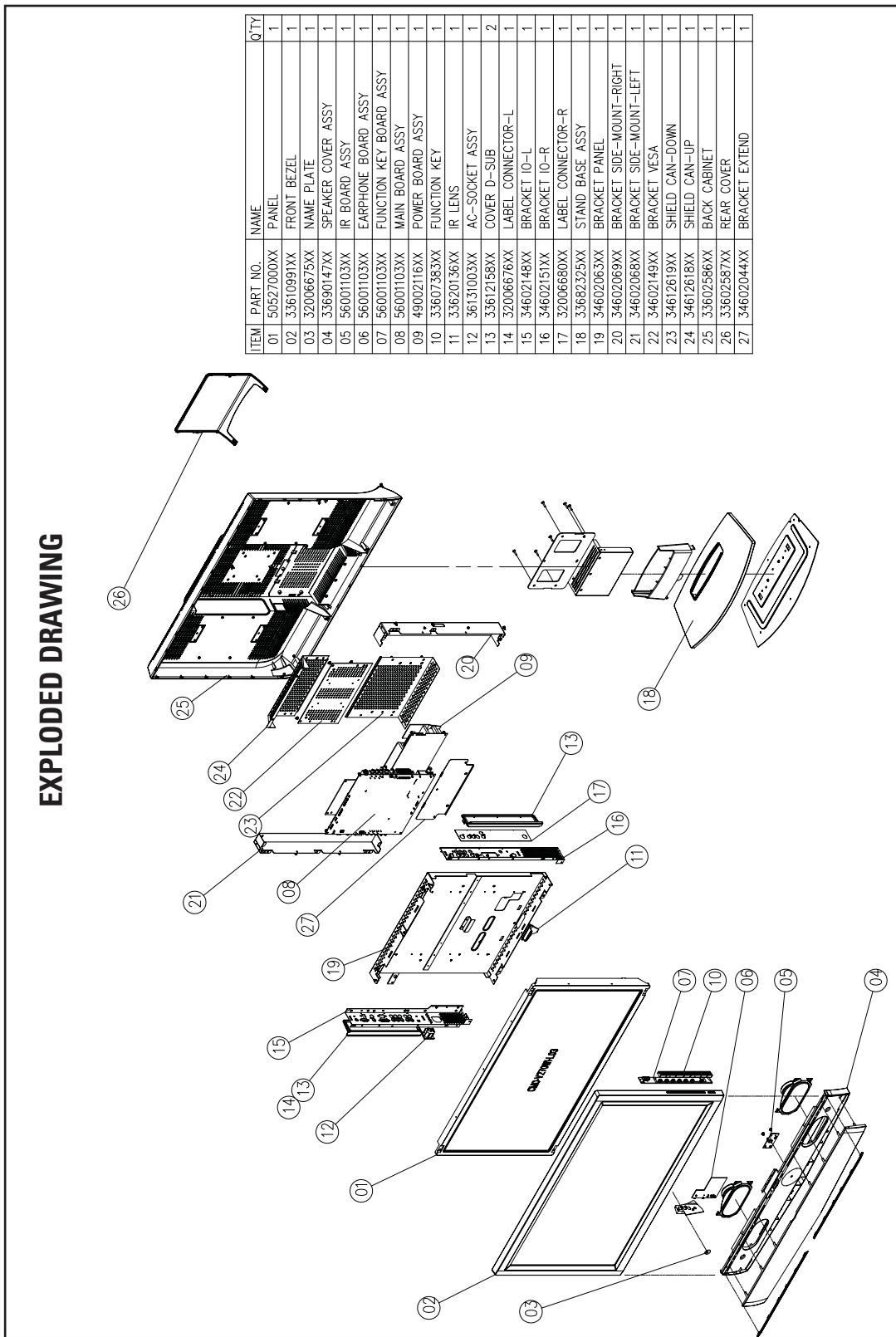
Appendix A. Part Numbers

PART NUMBER	DESCRIPTION	QUANTITY
<i>Power</i>		
3090107601	AC POWER CORD L=1800 BLK NA #18x3C	1
4900211680	POWER SUPPLY 90-264 VAC TV USE	1
<i>PCBA</i>		
5600110347	PWB ASSY MAIN BD LT32AAN 43AAB	1
5600110348	PWB ASSY FRONT BD LT32AAN 43AAB	1
5600110349	PWB ASSY FUN. KEY BD LT32AAN 43AAB	1
5600110350	PWB ASSY IR BD LT32AAN 43AAB	1
<i>Internal Cables</i>		
3080325500	CABLE RCA L1800 RED/WHITE 2P	1
3080325700	CABLE RCA L1800 G/B/R 3P	1
3080521201	CABLE FFC 30P L280 T2	1
<i>Accessory</i>		
5041809000	REMOTE CONTROL FOR LT30BAN43AAB	1
3532096300	MANUAL PACKING ASSY WDE USA	1
5010016200	MANUAL QUICK CONNECT GUIDE WDE LT3	1
<i>Mechanical Parts</i>		
3200667500	NAME PLATE NI WDE LOGO OD16.5 T.1	1
3200667601	LABEL CONNECTOR-L 231.4x43.25 WDE	1
3200668001	LABEL CONNECTOR-R 231.4x43.25 WDE	1
3201993300	LABEL ID 119.5x59.5 WDE LT32AAN	1
3211044700	MYLAR FILM 750x440 T.1 LT32AAN43AA	1
3360258900	R/C ABS LT32AAN43AAB W2VFA1AT	1
3360738300	FUNCTION KEY ABS W7VFA1LS	1
3361215800	COVER D-SUB ABS W7VRA1LS	2
3361216000	COVER EARPHONE ABS W7VRA1LS	1
3368224900	CABINET ASSY LT32AAN43AAB W2VRA1AT	1
3368232600	BASE ASSY LT32AAN43AAB W2VFA1AT	1
3368319300	F/B ASSY LT32AAN43AAB W2VFA1AT	1
3369014600	SPK COVER ASSY LT32AAN43AAB W2VFA1	1
3460205501	BRACKET PANEL SECC 466x452.5x43 T1	1
3460205801	BRACKET D-SUB-R SECC 399.2x47.5x35	1
3460205901	BRACKET D-SUB-L SECC 399.2x47.5x35	1
3460206001	BRACKET SIDE-R SECC 472.5x67.5x30.	1
3460206100	BRACKET ARM-BASE SECC 223.8x49.5x2	1

PART NUMBER	DESCRIPTION	QUANTITY
<i>Mechanical Parts (continued)</i>		
3460206201	BRACKET SIDE-L SECC 472.5x64.7x30.	1
3460207100	BRACKET ARM-BASE2 SECC 214x77.7x47	1
3460215300	BRACKET SECC 225x130 T2	1
3461040100	PLATE SPEAKER GILL SECC 789.7x74.2	1
3461261000	SHIELD CAN TOP SECC 226x114.5x47.8	1
3461261600	SHIELD CAN BOTTOM SECC 226x144x1.9	1
3790187700	SPEAKER-R ASSY LT32AAN43AAB	1
3790187800	SPEAKER-L ASSY LT32AAN43AAB	1
<i>Screws</i>		
3100131000	SCREW M M3x0.5x10 FPH C S20C ZN BL	8
3100300600	SCREW M M3x0.5x6 PAN C S+P S20C ZN	9
3105051501	SCREW M #4-40*7 HEXH #4-40x3 S18C	4
3105120100	SCREW M M4x0.7x12 PAN C S+P S10C Z	4
3105128700	SCREW M M4x0.7x8.5 FF C S18C ZN BL	12
3105128900	SCREW M M4x0.7x6 FF C S18C NI	26
3109016100	SCREW T 3x1.27x8 FPH C S18C ZN Y	8
3109020500	SCREW T 4x1.6x10 PAN C S18C ZN Y	11
3109028000	SCREW T 4x1.6x26 PAN C S18C BLK	8
3109029200	SCREW T 4x1.4x7.5 FPH C S18C ZN	12
3109168700	SCREW T 3x2.7x6 FF C S18C ZN BLK	12
3110250000	WASHER SPRING SWRT	4
<i>Packing Material</i>		
3500145800	END BLOCK-TOP LT32AAN43AAB	1
3500145900	END BLOCK-BOTTOM LT32AAN43AAB	1
3500148800	END BLOCK-RIGHT LT32AAN43AAB	1
3512281800	CARTON 896x274x812 LT32AAN43AAB 18	1

Appendix B. Exploded Diagram

EXPLODED DRAWING



Appendix C. Block & Schematic Diagram

